



**NEW ENGLAND
COMMON ASSESSMENT PROGRAM**

**Released Items
2012**

**Grade 3
Mathematics**

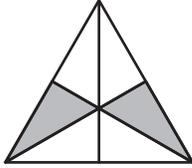
Mathematics



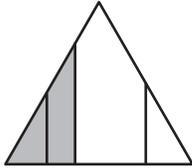
Items with this symbol were selected from Session One—no calculators or other mathematics tools allowed.

1 Which triangle is shaded $\frac{2}{4}$ gray?

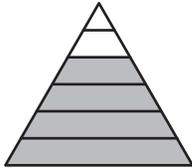
A.



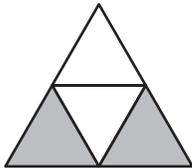
B.



C.

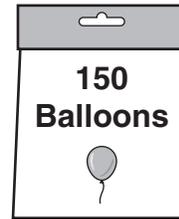


D.

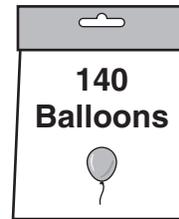


2 Mrs. Willis needs 150 balloons for a party. Which bag has exactly 10 **more** balloons than she needs?

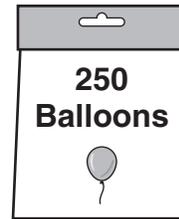
A.



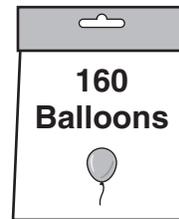
B.



C.



D.



3 Three children sold cards.

- Rita sold 43 cards.
- Carmen sold 37 cards.
- Lisa sold the fewest cards.

How many cards could Lisa have sold?

- A. 45
- B. 29
- C. 38
- D. 40



4 This chart shows the number of hours four students helped in the library.

Student	Number of Hours
Lisa	6
Shoko	8
Danielle	0
Alan	7

How many hours did these four students help in the library altogether?

- A. 11
- B. 14
- C. 21
- D. 22



5 Brian picked 96 berries. Brian picked 29 more berries than James. How many berries did James pick?

- A. 67
- B. 73
- C. 77
- D. 125

6 Look at these coins.



What is the value of these coins?

- A. \$0.11
- B. \$1.07
- C. \$1.28
- D. \$1.43



7 Laurie bought a fish for sixty-five cents at a pet store. She paid with a one-dollar bill. Which set of coins shows the correct amount of change Laurie received?



- 8 Look at this number sentence.

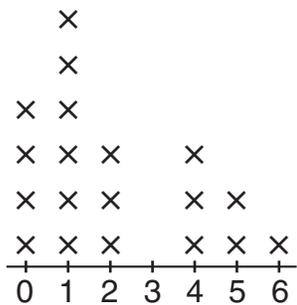
$$16 = \boxed{?} - 2$$

What number makes this number sentence true?

- A. 18
- B. 16
- C. 14
- D. 8

- 9 This line plot shows the number of pets Mrs. Caruso's students have.

Mrs. Caruso's Students' Pets



Number of Pets

Key
x represents 1 student

How many students have no pets?

- A. 0
- B. 3
- C. 4
- D. 6

- 10 This tally chart shows the number of cans four students collected on Monday and on Tuesday.

Cans Collected for Recycling

Student	Number of Cans Collected on Monday	Number of Cans Collected on Tuesday
Reggie		
Ellen		
Tony		
Paula		

How many more cans did the students collect on Monday than on Tuesday?

- A. 8
- B. 11
- C. 13
- D. 15



- 11 A postman delivered 81 letters and 15 packages. How many more letters than packages did the postman deliver?



- 12 Use the square-inch tiles from your envelope to find the area of the shape below.



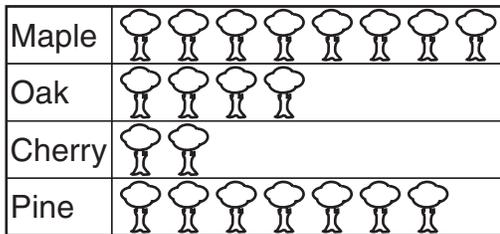
What is the area of this shape? Write the area on the line below.

_____ square inches



13 Look at this pictograph.

Trees in Park



How many fewer cherry trees than maple trees are in the park?

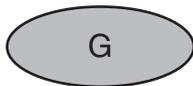
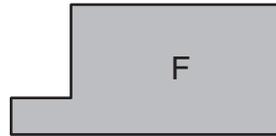
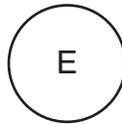
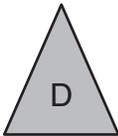
14 Look at this candy bar. Haley eats 2 pieces of this candy bar and Karl eats one-fourth of this candy bar.



a. What fraction of the candy bar does Haley eat?

b. How many pieces does Karl eat?

15 Ryan is playing a game using these shapes.



Ryan has these rules about a mystery shape:

- Rule 1: The shape is shaded.
- Rule 2: The shape has angles.
- Rule 3: Each side of the shape is a different length.

a. Write the letter of **every** shape that fits all three rules.

b. Draw a four-sided shape that fits **all** three rules.

16 Look at these number sentences.

$$\triangle + 10 = 18$$

$$\triangle + \bigcirc = 12$$

The \triangle has the same value in both of these number sentences. The \bigcirc has a different value than the \triangle .

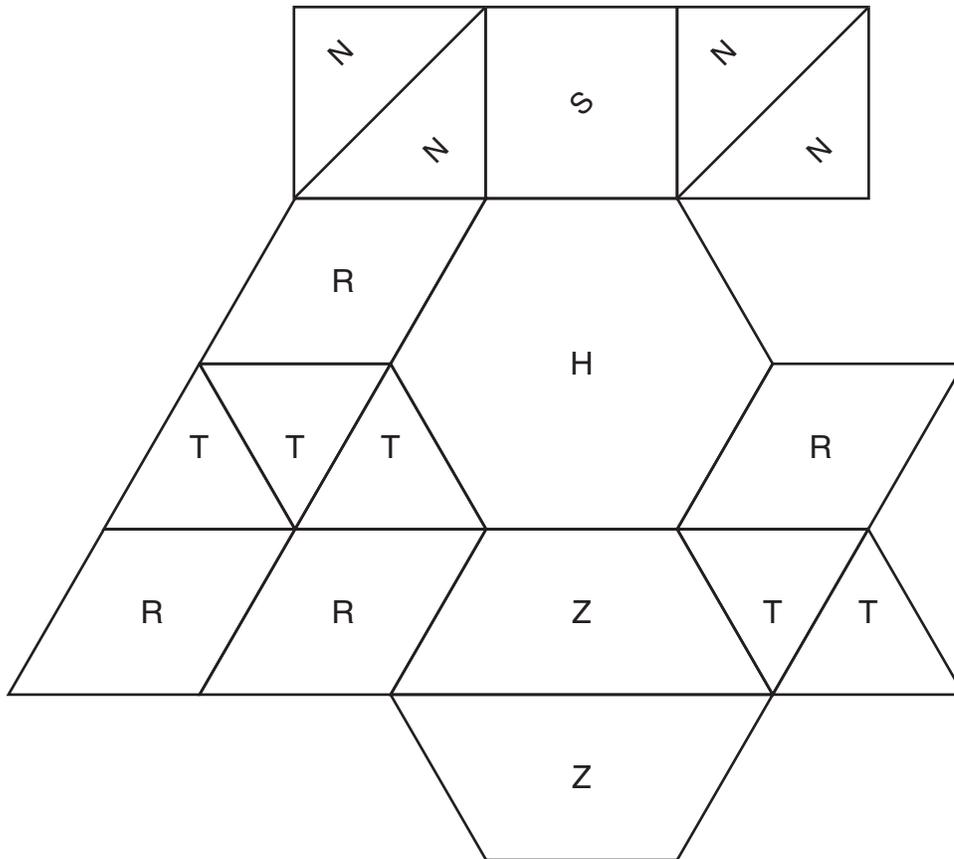
a. What is the value of \triangle ?

b. What is the value of \bigcirc ?

New England Common Assessment Program

Mathematics Tool Kit – Grade 3

Use the shapes to answer questions on the mathematics test.



square-inch tile	square-inch tile	square-inch tile	square-inch tile	square-inch tile
square-inch tile	square-inch tile	square-inch tile	square-inch tile	square-inch tile